

NOTES ON TETRASTICHINAE TYPES IN THE ZOOLOGICAL
INSTITUTE, LENINGRAD (HYMENOPTERA: EULOPHIDAE)

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Abstract.—Type specimens of Tetrastichinae (Hymenoptera: Eulophidae) in the Zoological Institute, Leningrad (ZIL) were examined. Lectotypes are designated for the following species: *Tetrastichus coccinellae* Kurdjumov, *Aprostocetus eupatorii* Kurdjumov, *T. pospelovi* Kurdjumov, *T. sokolowskii* Kurdjumov, *T. orchestidis* Bukowsky. Holotypes of the following species are in the collection of the ZIL: *Tetrastichus puncticoxae* Kurdjumov, *T. violaceus* Kurdjumov, *T. bibikovae* Dzhankmen. The primary type of *T. talitzkii* Kostjukov is shown to be a lectotype, not a holotype, and *nikolskajae* is chosen as the correct original spelling for *T. nikolskajae* Kostjukov.

This paper treats tetrastichine (Hymenoptera: Eulophidae) type material in the Zoological Institute, Leningrad (ZIL) in an attempt to stabilize several species names, to bring attention to types that may have previously been considered lost or for which the type depository was not given in the original description, and to treat nomenclatural problems that should be treated through publication. Species of N. V. Kurdjumov, V. Bukowsky, and V. V. Kostjukov are discussed.

Kurdjumov worked at the Poltava Experimental Station, Ukraine, and he described 10 species of tetrastichines. After World War II, M. N. Nikol'skaya brought a Schmidt box representing what was left of his collection to the ZIL. Material found in this box is referred to as from Kurdjumov's collection; material in ZIL but not found in this box is referred to as from ZIL, although in some cases it is assumed that Kurdjumov saw this material.

Material was found, and is discussed below, for all Kurdjumov tetrastichine species except *Geniocerus populi* (1913: 250, 251), *Aprostocetus quadriannulatus* (1913: 252, attributed to Förster, in litt.) and *T. mokrzeckii* (1912a: 144-145). The original description of *mokrzeckii* stated that cotypes of that species were in the Museum of the Crimea, Simferopol.

Also in the ZIL are type specimens for *Tetrastichus orchestidis* Bukowsky (discussed below), *T. bibikovae* Dzhankmen, 1971, and all species described by Kostjukov. Two of Kostjukov's species are discussed in order to select a correct original spelling for *T. nikolskajae* and to clarify the lectotype status of the primary type of *T. talitzkii*.

Tetrastichus cirsii (Kurdjumov)

Aprostocetus cirsii Kurdjumov (Förster in litt.), 1913: 252.

Tetrastichus cirsii (Kurdjumov), Domenichini, 1965: 128; 1966: 24.

This species, attributed to Förster in Kurdjumov's key to *Aprostocetus* (1913), was represented in ZIL by a single damaged specimen (sex unknown) from Förster's collection with the Förster labels "Aachen, Rheinland, Förster" and "*Tetrastichus Cirsii* Foerst., A." Although it is very likely that this specimen was examined by Kurdjumov when he was preparing his key, I hesitate to designate it as lectotype since the abdomen and antennae are missing and the head is crushed and partly missing. Perhaps a better specimen will be found in the future.

***Tetrastichus coccinellae* Kurdjumov**

Tetrastichus scaposus Thomson, 1878: 284.

Tetrastichus coccinellae Kurdjumov, 1912b: 239–240. Lectotype ♀ (present designation), USSR, Ukraine, Poltava (ZIL).

Aprostocetus coccinellae (Kurdjumov), Graham, 1961: 40.

Tetrastichus coccinellae Kurdjumov, Domenichini, 1965: 99; 1966: 26.

In the original description Kurdjumov stated that he examined many ♀ and 3 ♂. Earlier in the paper (p. 236) he indicated that there were at least 30 ♀. In his collection were 27 ♀ and 2 ♂, which I have designated and labeled as lectotype ♀, and 26 ♀, 2 ♂ paralectotypes. Graham (1961) and later Domenichini (1965, 1966) and Kostjukov (1978) chose to use the well-known name *coccinellae* rather than *scaposus* Thomson, 1878, which has priority.

***Tetrastichus eupatorii* (Kurdjumov), comb. n.**

Aprostocetus eupatorii Kurdjumov (Förster in litt.), 1913: 252. Lectotype ♀ (present designation), Germany, Aachen (ZIL).

This species, attributed to Förster in Kurdjumov's key to *Aprostocetus*, was represented in the ZIL collection by 2 ♀ from Förster's collection mounted on a single minuten pin and with the Förster labels "Aachen, Rheinland, Förster" and "*Tetrast. Eupatorii* Först." Domenichini (1966: 60) listed this species under species incertae sedis et nomina dubia and considered the type as probably lost. Since other material has not been found for this species, and since these specimens were almost certainly ones examined by Kurdjumov, I am designating and have labeled these as lectotype ♀ (lower specimen on the minuten) and paralectotype ♀ (upper specimen on the minuten). This previously unplaced species belongs in the *crino* species group (Graham, 1961; Domenichini, 1965), and will be treated by M. W. R. de V. Graham in his forthcoming work on European Tetrastichinae.

***Tetrastichus pospelovi* Kurdjumov**

Tetrastichus pospelovi Kurdjumov, 1912b: 237–238. Lectotype ♀ (present designation) (ZIL).

Geniocerus pospelovi (Kurdjumov), Kurdjumov, 1913: 251.

Aprostocetus pospelovi (Kurdjumov), Graham, 1961: 47.

Tetrastichus pospelovi (Kurdjumov), Domenichini, 1965: 120; 1966: 45.

Kurdjumov mentioned a total of 2 ♀ and 2 ♂ with the original description. A female was in his collection with the label "*Tetrastichus pospelovi*," and I have designated and labeled it as lectotype. Other specimens appear to be *pospelovi*; however they were not labeled, and there are more specimens (7 ♀, 1 ♂, and 1 ♀ of a different species on three pins) than mentioned in the original description. I

have not designated these specimens as paralectotypes, but I have labeled them as being from Kurdjumov's collection and placed them under *pospelovi* in the ZIL collection.

***Tetrastichus puncticoxae* Kurdjumov**

Tetrastichus puncticoxae Kurdjumov, 1913: 253, 255. Holotype ♀, USSR, Ukraine, Poltava (ZIL).

Tetrastichus puncticoxe Kurdjumov, Domenichini, 1966: 47.

The unique female mentioned in the original description was in Kurdjumov's collection with the label "*puncticoxae*, sp.n." I have clearly labeled this as being the holotype.

***Tetrastichus sokolowskii* Kurdjumov**

Tetrastichus sokolowskii Kurdjumov, 1912b: 238–239. Lectotype ♀ (present designation) (ZIL).

Tetrastichus sokolowskii Kurdjumov, Kurdjumov, 1913: 254.

Aprostocetus sokolowskii (Kurdjumov), Graham, 1961: 39.

Tetrastichus sokolowskii Kurdjumov, Domenichini, 1965: 116; 1966: 49.

The original description mentions 18 ♀ and 2 ♂. There were 6 ♀ and 1 ♂ in Kurdjumov's collection. I have designated and labeled these as lectotype ♀, and 5 ♀, 1 ♂ paralectotypes.

***Tetrastichus violaceus* Kurdjumov**

Tetrastichus violaceus Kurdjumov, 1913: 253, 254–255. Holotype ♀, USSR, Ukraine, Poltava (ZIL).

The unique female mentioned in the original description was in Kurdjumov's collection with the label "*violaceus*, sp.n." I have clearly labeled this as being the holotype.

***Tetrastichus orchestidis* Bukowsky**

Tetrastichus orchestidis Bukowsky, 1938: 168–169. Lectotype ♀ (present designation) USSR, Crimea (ZIL).

Geniocerus orchestidis (Bukowsky), Erdős, 1954: 359.

Aprostocetus orchestidis (Bukowsky), Graham, 1961: 47.

Tetrastichus orchestidis Bukowsky, Domenichini, 1965: 122; 1966: 42.

In the original description Bukowsky stated that this species was described from many specimens. There were 6 ♀ and 4 ♂ in the ZIL with the Bukowsky label "*Tetrastichus orchestidis* n.sp." I have designated and labeled these as lectotype ♀, and 5 ♀, 4 ♂ paralectotypes.

***Tetrastichus talitzkii* Kostjukov**

Tetrastichus talitzkii Kostjukov, 1978: 451. Lectotype ♀, USSR, Moldavia.

Tetrastichus talitzkii was originally described by Kostjukov in his key to *Tetrastichus* in the Handbook of Insects of the European Part of the USSR (1978). It was not treated as a new species in the key because a separate paper describing this species had been submitted for publication several years earlier and was

supposed to be published before the key. This paper was never published. For this reason the original description in the key was not accompanied by a holotype designation or by any reference to type material; the specimens he based his description on thus automatically becoming syntypes.

In an attempt to rectify this situation Kostjukov redescribed *T. talitzkii* (1984a), but with the redescription designated a holotype and paratypes instead of lectotype and paralectotypes. According to article 74a of the International Code of Zoological Nomenclature (1985), this "holotype" is the lectotype, the "paratypes" are paralectotypes. Proper data for all types are as follows.

Lectotype ♀: USSR, Moldavia, Starye Dubossary, from tortricid larva on apple, 10.vii.1974 (Talitzky).

Paralectotypes: as lectotype, 13 ♀, 3 ♂ on 2 cards, 1 ♀, 1 ♂, ♀ antennae (from card mounted paralectotype) on 3 slides; as lectotype but 10–14.vii.1974, 5 ♀, 3 ♂ on 1 card; as lectotype but 30.vi.1974, 10 ♀ on 1 card.

All types in ZIL. Lectotype is on a card with 7 ♀, 2 ♂ paralectotypes and is indicated with red ink.

Tetrastichus nikolskajae Kostjukov

Tetrastichus nikolskajae Kostjukov, 1984b: 30–31.

In the paper containing the original description for this species, the name *nikolskajae* is spelled in two different ways. Through a printer's error the name was spelled as *nikolskaie* where it accompanied the original description (p. 30); however it was spelled *nikolskajae* in two other places in the paper (p. 34, 35), in the English summary to the paper (p. 35), and all the type material (in ZIL) is labelled as *nikolskajae*. Even though the spelling *nikolskaie* was due to a printer's error, there is nothing found in the original publication to indicate which spelling was preferred by the author, and the correct spelling must be chosen by the first reviser. Acting in this capacity, I am selecting *Tetrastichus nikolskajae* as the correct spelling; the spelling *nikolskaie* is an incorrect original spelling and has no standing in nomenclature.

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